

Listing of Claims

- 1-12 (Canceled)
13. (New) A data transmission system, comprising:
a computer; and
a modem coupled to the computer through a Bluetooth connection;
wherein data packets are transmitted between the computer and the modem through the Bluetooth connection, and the modem transmits the data packets via an air interface for accessing the Internet.
14. (New) The system of claim 13, wherein the modem comprises:
a radio transmitting system which includes a multi-access system that allows a plurality of computers to access at least one radio communication terminal.
15. (New) The system of claim 13, wherein the computer is a laptop.
16. (New) The system of claim 13, wherein the modem comprises:
at least one radio communication terminal; and
a multi-access system between the radio communication terminal and computer.

17. (New) The system of claim 16, wherein the multi-access system sends data packets belonging to a same call from the computer for wireless transmission through a plurality of radio communication terminals.

18. (New) The system of claim 17, wherein the multi-access system sends the data packets through the plurality of radio communication terminals based on a same destination IP address and a same data link address, said same data link address corresponding to the computer.

19. (New) The system of claim 16, wherein the multi-access system comprises:
a multimedia system for receiving data packets from a plurality of computers;
a packet-call connection system for interfacing with one or more radio communication terminals; and
a multi-access routing system for routing data packets from the multimedia system to the radio communication terminals according to a slot assignment method.

20. (New) The system of claim 19, wherein the slot assignment method is set by the plurality of computers.

21. (New) The system of claim 19, wherein the slot assignment method comprises:
performing a one-on-one assignment for mapping each of the computer to a
respective one of the radio communication terminals; and
a common sharing method for allowing each computer to share the plurality of
radio communication terminals for transmitting data packets.

22. (New) The system of claim 19, wherein the multimedia system comprises:
a plurality of physical data link control circuits provided in one-to-one
correspondence with the plurality of computers, each of said physical data link control circuits
controlling a corresponding physical data link;
a TCP/IP control circuit to perform a TCP/IP protocol function on data packets
transmitted from the plurality of physical data link control circuits;
a command/response control circuit for performing/responding to a command of
the computers transmitted from the TCP/IP control circuit; and
a data control circuit for sorting and buffering data transmitted from the TCP/IP
control circuit.

23. (New) The system of claim 19, wherein the multi-access routing system;
sets a slot assignment method according to a command of at least one of the
computers,
assigns a slot to said one of the computers according to the set slot assignment
method, and
routes data packets associated with a same call between said one of the computers
and multiple ones the radio communication terminals based on said same destination IP address
and said same data link address associated with each of the packets.